UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/940,689	08/27/2001	Michael Knaupp	340058.534	4320
500 7590 05/03/2007 SEED INTELLECTUAL PROPERTY LAW GROUP PLLC 701 FIFTH AVE			EXAMINER	
			PRONE, JASON D	
SUITE 5400 SEATTLE, WA 98104			ART UNIT	PAPER NUMBER
			3724	· <u></u>
				<u> </u>
		·	MAIL DATE	DELIVERY MODE
			05/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

3						
	Application No.	Applicant(s)				
	09/940,689	KNAUPP ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jason Prone	3724				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tirr ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status		•				
1)⊠ Responsive to communication(s) filed on 31 Ja	nuary 2007					
· - ·	action is non-final.					
· —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1,3-11,13-22,24-43,62 and 63</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>37,38,62 and 63</u> is/are allowed.						
6)⊠ Claim(s) <u>1,3-9,11,13-22,24,26-34,36,39,40,42 and 43</u> is/are rejected.						
7) Claim(s) 10,20,25,35 and 41 is/are objected to.						
* * * * * * * * * * * * * * * * * * * *						
Application Papers						
_						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
· -	animer. Note the attached Office					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P					
Paper No(s)/Mail Date	6) Other:					

Art Unit: 3724

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 13, 18, 28, 39, 42, and 43 are rejected under 35 U.S.C. 102(e) as anticipated by Shepherd (6,126,524).

Claims 13, 18, and 28:

In regards to claim 13, Shepherd discloses the same invention including a cutting head having a body (26) adapted to receive an orifice at an orifice location for generating a fluid jet (32), a mixing tube coupled to the body of the cutting head downstream of the orifice location (52), a motion assembly coupled to the cutting head (12) via a clamp positioned around the body of the cutting head (72), and a nozzle body assembly removably coupled to the cutting head (24, old and well known the parts of the fluid jets cutters are removably coupled), the clamp capable of holding the cutting head when the nozzle body is separated from the cutting head assembly allowing access to the orifice location without removing the cutting head from the clamp (Fig. 3).

In regards to claim 18, Shepherd discloses the clamp further comprises an upper guide coupled to the nozzle body assembly (68) and the upper guide capable of

Art Unit: 3724

vertically supporting the nozzle body assembly when the cutting head is removed from the clamp (Fig. 3).

In regards to claim 28, Shepherd discloses the clamp is positioned around the body of the cutting head downstream of the orifice location (Fig. 3).

Claims 39 and 42:

In regards to claim 39, Shepherd discloses the same invention including an end 3. effector assembly coupled to a ram for motion along a vertical axis (12), the ram being coupled to a bridge for motion along an axis parallel to a longitudinal axis of the bridge (12), the bridge being movable in a direction perpendicular to its longitudinal axis (Column 3 lines 10-15), the end effector comprising a cutting head having a body (26) adapted to receive an orifice at an orifice location for generating a high pressure fluid jet (32), a mixing tube coupled to the body of the cutting head downstream of the orifice location (52), a motion assembly (18) coupled to the cutting head via a clamp positioned around the body of the cutting head (72), a nozzle body assembly removably coupled to the cutting head assembly (24), the clamp capable of holding the cutting head assembly when the nozzle body is separated from the cutting head assembly (Fig. 3).

In regards to claim 42, Shepherd discloses the cutting head assembly is coupled to a source of high-pressure fluid (36) and to a source of abrasive (52).

Claim 43:

Shepherd discloses the same invention including an end effector assembly coupled to a two-dimensional manipulator (12) the end effector assembly being provided with a cutting head (26) having a body adapted to receive an orifice at an

Art Unit: 3724

orifice location for generating a fluid jet (32), a mixing tube coupled to the body downstream of the orifice location (52), a motion assembly coupled to the cutting head (18) via a clamp (72), a nozzle body assembly removably coupled to the cutting head (24), and the clamp capable of holding the cutting head when the nozzle body is separated from the cutting head assembly allowing access to the orifice location without removing the cutting head from the clamp (Fig. 3).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, 3, 4, and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shepherd in view of Hoffman et al. (5,234,185). In regards to claim 1, Shepherd discloses the invention including a cutting head (26) having a body adapted to receive an orifice at an orifice location for generating a high pressure fluid jet (32), a mixing tube coupled to the body of the cutting head downstream of the orifice location (52), a motion assembly (12) coupled to the cutting head via a clamp positioned around the body of the cutting head (72), and the outer surface of the body mates with an inner surface of the clamp in a weight-bearing manner to vertically position and support the cutting head (Fig. 2).

In regards to claim 4, Shepherd discloses a nozzle body assembly removably coupled to the cutting head (24) and the clamp capable of holding the cutting head

Art Unit: 3724

when the nozzle body is separated from the cutting head assembly allowing access to the orifice location without removing the cutting head from the clamp (Fig. 3).

In regards to claim 7, Shepherd discloses the clamp further comprises an upper guide coupled to the nozzle body assembly (68) and the upper guide capable of vertically supporting the nozzle body assembly when the cutting head is removed from the clamp (Fig. 3).

However, Shepherd fails to disclose a raised member is provided on the outer surface of the body and a recess is provided on the inner surface of the clamp, the raised member mates with the recessed, and the clamp has a quick-release mechanism.

Hoffman et al. teaches that it is old and well known in the art of clamping to incorporate a raised member that is provided on the outer surface of the body (28) and a recess is provided on the inner surface of the clamp (22), the raised member mates with the recessed (Fig. 2), and the clamp has a quick-release mechanism (32). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided Shepherd with the clamp, as taught by Hoffman et al., to allow for a more secure fit and an easier way to remove the clamp.

6. Claims 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shepherd in view of Hoffman et al. as applied to claim 1 above, and further in view of Sprague (1,701,281). Shepherd in view of Hoffman et al. disclose the invention but fail to disclose the clamp is provided with a triangularly arrange alignment member to

Art Unit: 3724

position the cutting head in a desired location and the triangularly arranged alignment member comprises pins that protrude inwardly from the inner surface of the clamp.

Sprague teaches that it is old and well known in the art of cylindrical clamping to incorporate a triangularly arrange alignment member to position the cutting head in a desired location (20) and the triangularly arranged alignment member comprises pins that protrude inwardly from the inner surface of the clamp (20). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided Shepherd in view of Hoffman et al. with the triangularly arranged alignment member, as taught by Sprague, allow for a cylindrical work piece to be centered in the clamp.

7. Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shepherd in view of Hoffman et al. as applied to claim 1 above, and further in view of Stewart et al. (6,379,214). Shepherd in view of Hoffman et al. disclose the invention but fail to disclose a position sensor coupled to the clamp adjacent the cutting head and a flexible shield coupled to and surrounding an end region of the mixing tube.

Stewart et al. teaches position sensor coupled to a clamp adjacent the cutting head (224), a shield coupled to an end region of the cutting head assembly (127), and the shield is made of a flexible material (127, it is noted that all materials with the correct force will flex even if it is a little bit). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided Shepherd in view of Hoffman et al. with a position sensor and a shield, as taught by Stewart et al., to allow

Art Unit: 3724

for a more precise cut and to prevent unwanted materials coming into contact with the jet.

8. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shepherd in view of Hoffman et al. as applied to claim 1 above, and further in view of Hoaki (4,900,198). Shepherd in view of Hoffman et al. disclose the invention including a high-pressure fluid assembly with high-pressure tubing coupled to the cutting head (36 of Shepherd).

However, Shepherd in view of Hoffman et al. fail to disclose the high-pressure fluid assembly has a swivel through which high-pressure tubes pass to deliver-pressure fluid to the cutting head, the swivel allowing the tubing to follow motion imparted by the motion assembly.

Hoaki teaches a high-pressure fluid assembly that has a swivel allowing tubing to follow motion imparted thereon (12). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided Shepherd in view of Hoffman et al. with a swivel, as taught by Hoaki, to prevent the high-pressure tubes from getting tangled while the machine moves.

9. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shepherd in view of Hoffman et al. Shepherd in view of Hoffman et al. disclose the invention but fail to disclose the clamp has a quick-release mechanism.

Hoffman et al. teaches that it is old and well known in the art of clamping to incorporate a quick-release mechanism (32). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided Shepherd

Art Unit: 3724

with the clamp, as taught by Hoffman et al., to allow for a more secure fit and an easier way to remove the clamp.

10. Claims 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shepherd in view of Sprague. Shepherd discloses the invention but fail to disclose the clamp is provided with a triangularly arrange alignment member to position the cutting head in a predefined location, the triangularly arranged alignment member comprises pins that protrude inwardly from the inner surface of the clamp, and the inner surface of the clamp is configured to contact an outer surface of the cutting head at three locations around the circumference of the cutting head.

Sprague teaches that it is old and well known in the art of cylindrical clamping to incorporate a triangularly arrange alignment member to position the cutting head in a desired location (20), the triangularly arranged alignment member comprises pins that protrude inwardly from the inner surface of the clamp (20), and the inner surface of the clamp is configured to contact an outer surface of the cutting head at three locations around the circumference of the cutting head (20). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided Shepherd with the triangularly arranged alignment member, as taught by Sprague, allow for a cylindrical work piece to be centered in the clamp.

11. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shepherd in view of Stewart et al. Shepherd discloses the invention but fails to disclose a position sensor coupled to the clamp adjacent the cutting head.

Art Unit: 3724

Stewart et al. teaches a position sensor coupled to a clamp adjacent the cutting head (224). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided Shepherd with a position sensor, as taught by Stewart et al., to allow for a more precise cut.

12. Claims 21, 22, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shepherd in view of Gerber (3,877,334). Shepherd discloses the invention but fail to disclose a flexible shield coupled to and surrounding an end region of the mixing tube, the shield is provided with a flange that matingly engages a groove provided in the end region of the cutting head, and the disk of hard material is positioned in an upper inner region of the shield.

Gerber teaches a shield coupled to an end region of the cutting head assembly (127), and the shield is made of a flexible material (70, it is noted that all materials with the correct force will flex even if it is a little bit), the shield is provided with a flange that matingly engages a groove provided in the end region of the cutting head (Fig. 2), and the disk of hard material is positioned in an upper inner region of the shield (inner top surface of 70). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided Shepherd with a shield, as taught by Gerber, to prevent unwanted materials coming into contact with the jet.

13. Claims 26 and 27 rejected under 35 U.S.C. 103(a) as being unpatentable over Shepherd in view of Hoaki. Shepherd disclose the invention including a high-pressure fluid assembly with high-pressure tubing coupled to the cutting head (36).

Art Unit: 3724

However, Shepherd fails to disclose the high-pressure fluid assembly has a swivel through which high-pressure tubes pass to deliver-pressure fluid to the cutting head, the swivel allowing the tubing to follow motion imparted by the motion assembly, and the swivel is connected to a valve with a diameter smaller than 4 inches.

Hoaki teaches a high-pressure fluid assembly that has a swivel allowing tubing to follow motion imparted thereon (12) and the swivel is connected to a valve with a diameter smaller than 4 inches (Fig. 1). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided Shepherd with a swivel, as taught by Hoaki, to prevent the high-pressure tubes from getting tangled while the machine moves.

14. Claims 29, 30, and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shepherd in view of Hoffman et al. In regards to claim 29, Shepherd discloses the invention including a cutting head assembly having a body adapted to receive an orifice at an orifice location for generating a high pressure fluid jet (26), a mixing tube coupled to the body of the cutting head downstream of the orifice location (52), and a motion assembly (12) coupled to the cutting head via a clamp positioned around the body of the cutting head (72).

In regards to claim 30, Shepherd discloses a nozzle body assembly removably coupled to the cutting head (24) and the clamp capable of holding the cutting head when the nozzle body is separated from the cutting head assembly allowing access to the orifice location without removing the cutting head from the clamp (Fig. 3).

Art Unit: 3724

In regards to claim 32, Shepherd discloses the clamp further comprises an upper guide coupled to the nozzle body assembly (68) and the upper guide capable of vertically supporting the nozzle body assembly when the cutting head is removed from the clamp (Fig. 3).

However, Shepherd fails to disclose a clamp with a quick-release mechanism.

Hoffman et al. teaches that it is old and well known in the art of clamping to have a clamp that has a quick-release mechanism (32). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided Shepherd the clamp, as taught by Hoffman et al., to allow for a user to easily remove the clamp.

15. Claim 31 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shepherd in view of Hoffman et al. as applied to claim 29 above, and further in view of Sprague. Shepherd in view of Hoffman et al. disclose the invention but fail to disclose the clamp is provided with a triangularly arrange alignment member to position the cutting head in a desired location.

Sprague teaches that it is old and well known in the art of cylindrical clamping to incorporate a triangularly arrange alignment member to position the cutting head in a desired location (20). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided Shepherd in view of Hoffman et al. with the triangularly arranged alignment member, as taught by Sprague, allow for a cylindrical work piece to be centered in the clamp.

Art Unit: 3724

16. Claims 33 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shepherd in view of Hoffman et al. as applied to claim 29 above, and further in view of Stewart et al. Shepherd in view of Hoffman et al. disclose the invention but fail to disclose a position sensor coupled to the clamp adjacent the cutting head and a flexible shield coupled to and surrounding an end region of the mixing tube.

Stewart et al. teaches position sensor coupled to a clamp adjacent the cutting head (224), a shield coupled to an end region of the cutting head assembly (127), and the shield is made of a flexible material (127, it is noted that all materials with the correct force will flex even if it is a little bit). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided Shepherd in view of Hoffman et al. with a position sensor and a shield, as taught by Stewart et al., to allow for a more precise cut and to prevent unwanted materials coming into contact with the jet.

17. Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shepherd in view of Hoffman et al. as applied to claim 29 above, and further in view of Hoaki. Shepherd in view of Hoffman et al. disclose the invention including a high-pressure fluid assembly with high-pressure tubing coupled to the cutting head (36 of Shepherd).

However, Shepherd in view of Hoffman et al. fail to disclose the high-pressure fluid assembly has a swivel through which high-pressure tubes pass to deliver-pressure fluid to the cutting head, the swivel allowing the tubing to follow motion imparted by the motion assembly.

Art Unit: 3724

Hoaki teaches a high-pressure fluid assembly that has a swivel allowing tubing to follow motion imparted thereon (12). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided Shepherd in view of Hoffman et al. with a swivel, as taught by Hoaki, to prevent the high-pressure tubes from getting tangled while the machine moves.

18. Claims 39 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shepherd in view of Gerber. In regards to claim 39, Shepherd discloses the invention including an end effector assembly coupled to a ram for motion along a vertical axis (12), the ram being coupled to a bridge for motion along an axis parallel to a longitudinal axis of the bridge (202), the end effector comprising a body adapted to receive an orifice at an orifice location for generating a high pressure fluid jet (24, 26, and 174), a mixing tube positioned within the body of the cutting head downstream of the orifice location (26), a motion assembly (200) coupled to the cutting head via a clamp positioned around the body of the cutting head (160 and 132), a nozzle body assembly removably coupled to the cutting head assembly (120 is removed in Fig. 5), the clamp capable of holding the cutting head assembly when the nozzle body is separated from the cutting head assembly (160 is capable of holding items 24, 26, and 174 when item 120 is not connected).

In regards to claim 42, Stewart et al. discloses the cutting head assembly is coupled to a source of high-pressure fluid (50) and to a source of abrasive (Abstract line 3).

Art Unit: 3724

However, Stewart et al. fail to disclose the bridge is movable in a direction perpendicular to its longitudinal axis.

Shepherd et al. teaches that it is old and well known in the art of water jet cutters to incorporate a bridge that is movable in a direction perpendicular to its longitudinal axis (48). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided Stewart et al. with X or Y direction moving bridge, as taught by Shepherd et al., to give the cutter the ability to cut a larger surface area without having to move the work piece.

19. Claim 40 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shepherd in view of Hoaki. Shepherd discloses the invention including a high-pressure fluid assembly with high-pressure tubing coupled to the cutting head (36).

However, Shepherd fails to disclose the high-pressure fluid assembly has a swivel through which high-pressure tubes pass to deliver-pressure fluid to the cutting head, the swivel allowing the tubing to follow motion imparted by the motion assembly.

Hoaki teaches a high-pressure fluid assembly that has a swivel allowing tubing to follow motion imparted thereon (12). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided Shepherd with a swivel, as taught by Hoaki, to prevent the high-pressure tubes from getting tangled while the machine moves.

Allowable Subject Matter

20. Claims 37, 38, 62, and 63 are allowed.

Page 15

Application/Control Number: 09/940,689

Art Unit: 3724

21. Claims 10, 20, 25, 35, and 41 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

22. Applicant's arguments filed 31 January 2007 have been fully considered but they are not persuasive. Applicant is taking the names from the individual structures in the instant application and is labeling Shepherd with these terms to show that Shepherd does not anticipate the claims. Applicant's labeling may be correct but is only one interpretation and that does not mean that other items from Shepherd can be considered a particular structure especially when that particular structure incorporates a broad name. The terms applicant is arguing for are extremely broad terms. For example, applicant is arguing that item 26, in Shepherd, is a nozzle body and cannot be part of the cutting head. The term nozzle body is defined by dictionary.com as: a projecting spout, terminal discharging pipe, or the like, as of a hose or bellows. So any structure that has structure as described in the definition may be interpreted as a nozzle body. So items 26 or 42 in Shepherd could be considered nozzle bodies. Also, item 18 in the instant application could be considered a nozzle body. The same goes with the term cutting head. The combination of items 26 and 42 in Shepherd clearly cut and are clearly at the "head end" of the apparatus and therefore can be considered the cutting head. The Patent to Chisum et al. (6,601,783) discloses an apparatus similar to items 26 and 42 in Shepherd and Chisum et al. clearly calls this a cutting head (abstract). Next dictionary com defines the term orifice as: an opening or aperture, as of a tube or

Art Unit: 3724

pipe; a mouthlike opening or hole; mouth; vent. As discussed above, item 38 is an orifice location but so it item 32. The examiner never used item 52 to represent an orifice location only for a mixing tube downstream of an orifice location. The term mixing tube is another extremely broad term and any tube that is involved with or capable of being involved with any type of mixing is a mixing tube, therefore, item 52 can be considered a mixing tube. With regards to argument to claim 18, if clamp 72 is removed from the apparatus, the cutting head has thus been removed from the clamp. Since item 68 is still coupled to and supports item 26 via items 34 and 24, it anticipates the claim.

Applicant must incorporate additional structure to prevent such broad interpretations of the terms at issue.

Conclusion

23. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Art Unit: 3724

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Prone whose telephone number is (571) 272-4513. The examiner can normally be reached on 7:00-4:30, Mon - (every other) Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Boyer D. Ashley can be reached on (571) 272-4502. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

April 27, 2007

Patent Examiner
Jason Prone
Art Unit 3724
T.C. 3700

BOYER D. ASHLEY
SUPERVISORY PATENT EXAMINER